Attorney's Docket No.: 05882.0143.CPUS04

AMENDMENTS

In the claims:

- 1. (Currently Amended) A method of detecting a breast cancer-associated transcript in a cell from a patient, the method comprising contacting a biological sample from the patient with a polynucleotide that selectively hybridizes to a sequence at least 80%-identical to SEQ ID NO:5, or a polymorphic variant, allelic variant, mutant, interspecies homolog, or conservatively modified variant sequence at least 95% identical to SEQ ID NO:5a sequence as shown in Tables 1-25.
- 2. (Currently Amended) The method of claim 1, wherein the biological sample comprises isolated-nucleic acids.
- 3. (Original) The method of claim 2, wherein the nucleic acids are mRNA.
- 4. (Original) The method of claim 2, further comprising the step of amplifying nucleic acids before the step of contacting the biological sample with the polynucleotide.
- 5. (Currently Amended) The method of claim 1, wherein the polynucleotide comprises a sequence as shown in Tables 1-25 complementary to a subsequence of SEQ ID NO:5.
- 6. (Original) The method of claim 1, wherein the polynucleotide is immobilized on a solid surface.
- 7. (Original) The method of claim 1, wherein the patient is undergoing a therapeutic regimen to treat breast cancer.
- 8. (Original) The method of claim 1, wherein the patient is suspected of having breast cancer.
- 9. (Withdrawn) An isolated nucleic acid molecule consisting of a polynucleotide sequence as shown in Tables 1-25.
- 10. (Withdrawn) The nucleic acid molecule of claim 9, which is labeled.
- 11. (Withdrawn) An expression vector comprising the nucleic acid of claim 9.

- 12. (Withdrawn) A host cell comprising the expression vector of claim 11.
- 13. (Withdrawn) An isolated polypeptide which is encoded by a nucleic acid molecule having polynucleotide sequence as shown in Tables 1-25.
- 14. (Withdrawn) An antibody that specifically binds a polypeptide of claim 13.
- 15. (Withdrawn) The antibody of claim 14, further conjugated to an effector component.
- 16. (Withdrawn) The antibody of claim 15, wherein the effector component is a fluorescent label.
- 17. (Withdrawn) The antibody of claim 15, wherein the effector component is a radioisotope or a cytotoxic chemical.
- 18. (Withdrawn) The antibody of claim 15, which is an antibody fragment.
- 19. (Withdrawn) The antibody of claim 15, which is a humanized antibody
- 20. (Withdrawn) A method of detecting a breast cancer cell in a biological sample from a patient, the method comprising contacting the biological sample with an antibody of claim 14.
- 21. (Withdrawn) The method of claim 20, wherein the antibody is further conjugated to an effector component.
- 22. (Withdrawn) The method of claim 21, wherein the effector component is a fluorescent label.
- 23. (Withdrawn) A method for identifying a compound that modulates a breast cancer-associated polypeptide, the method comprising the steps of:
- (i) contacting the compound with a breast cancer-associated polypeptide, the polypeptide encoded by a polynucleotide that selectively hybridizes to a sequence at least 80% identical to a sequence as shown in Tables 1-25; and
 - (ii) determining the functional effect of the compound upon the polypeptide.

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- 24. (Withdrawn) A drug screening assay comprising the steps of
- (i) administering a test compound to a mammal having breast cancer or a cell isolated therefrom;
- (ii) comparing the level of gene expression of a polynucleotide that selectively hybridizes to a sequence at least 80% identical to a sequence as shown in Tables 1-25 in a treated cell or mammal with the level of gene expression of the polynucleotide in a control cell or mammal, wherein a test compound that modulates the level of expression of the polynucleotide is a candidate for the treatment of breast cancer.
- 25. (New) A method of diagnosing breast cancer in a patient, the method comprising:
 - (i) obtaining a biological sample from the patient; and
 - (ii) detecting the level of a polynucleotide in the sample, wherein the polynucleotide is an RNA equivalent of a nucleic acid sequence identical to SEQ ID NO:5, or a polymorphic variant, allelic variant, mutant, interspecies homolog, or conservatively modified variant sequence at least 95% identical to SEQ ID NO:5, and wherein an increase in the level of the polynucleotide relative to a normal biological sample is indicative of breast cancer.
- 26. (New) The method of claim 25, wherein the method further comprises isolating nucleic acids from the sample.
- 27. (New) The method of claim 25, wherein the detecting step comprises hybridizing a labeled probe to the polynucleotide.
- 28. (New) The method of claim 27, wherein the probe is labeled with a fluorescent label.
- 28. (New) The method of claim 25, wherein the detecting step comprises hybridizing the polynucleotide to a probe that is immobilized on a solid surface.
- 29. (New) The method of claim 25, wherein the detecting step comprises contacting the sample with a biochip, wherein the biochip comprises the nucleic acid sequence disclosed in SEQ ID NO:5.

- 30. (New) A method of monitoring breast cancer in a patient, the method comprising:
 - (i) detecting the level in said patient of an expression product of a gene encoded by a nucleic acid sequence identical to SEQ ID NO:5, or a polymorphic variant, allelic variant, mutant, interspecies homolog, or conservatively modified variant sequence at least 95% identical to SEQ ID NO:5;
 - (ii) comparing the level of said expression product in said human with the level of said expression product in a normal patient.
- 31. (New) The method of claim 30 wherein said expression product is mRNA.
- 32. (New) The method of claim 31 wherein said detecting step comprises hybridizing a polynucleotide probe to said mRNA, wherein said probe is complementary to said mRNA.
- 33. (New) The method of claim 32 wherein said polynucleotide probe is labeled.
- 34. (New) The method of claim 31 wherein said label is a fluorescent label.
- 35. (New) The method of claim 30 wherein said expression product is a polypeptide.
- 36. (New) The method of claim 35 wherein said detecting step comprises contacting said polypeptide with an antibody that binds to said polypeptide.
- 37. (New) The method of claim 36 wherein said antibody further comprises a label.